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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/076,367	02/19/2002	Dennis S. Lee	108339-00132	1505
32294	7590	03/29/2006	EXAMINER	
SQUIRE, SANDERS & DEMPSEY L.L.P.			MILLS, DONALD L	
14TH FLOOR			ART UNIT	
8000 TOWERS CRESCENT			PAPER NUMBER	
TYSONS CORNER, VA 22182			2616	

DATE MAILED: 03/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/076,367

Applicant(s)

LEE ET AL.

Examiner

Donald L. Mills

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-46 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-46 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 05/23/02;06/16/03.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-46 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 1, 2, 4, 6-9, 13, 16, 22-25, 27, 29-31, 36 and 39, the claim specifies *obtaining a portion* (For example, see claim 1, line 4.) The meaning of the term "portion" is unclear from the context of the claim. Further clarification is requested.

Regarding claims 1 and 24, the claim specifies *a mask* (For example, see claim 1, line 10.) The meaning of the term "mask" is unclear from the context of the claim. Further clarification is requested.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-5, 19-23, 24-28, and 42-46 are rejected under 35 U.S.C. 102(b) as being anticipated by Coss et al. (US 6,154,775), hereinafter referred to as Coss.

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Regarding claims 1 and 24, Coss discloses a method and apparatus for a computer network firewall with dynamic rule processing with the ability to dynamically alter the operations of rules, which comprises:

Receiving an incoming data packet (Referring to Figure 2, firewall 212 receives packets;)

Parsing the incoming data packet to obtain a portion of the incoming data packet
(Referring to Figure 3, firewalls 212 and 213 parse packets;)

Comparing said portion with rules stored in a rule table, where each rule of said rules specifies a set of actions (Referring to Figure 3, rules are applied sequentially until a rule is found which is satisfied by the packet. See column 4, lines 27-29;)

Selecting a match between said portion and a particular rule of said rules; and executing a particular set of actions specified by said particular rule (Referring to Figure 3, a packet from source host A to destination host D and representing mail will be dropped under rule 20. See column 4, lines 31-34;)

Wherein each rule field of said rules includes a mask and a selection flag used in the comparing said portion with each rule (Referring to Figures 3 and 4, each session key is indexed through a hash table (mask) and has a corresponding applicable action. See column 5, lines 55-59.)

Regarding claims 2 and 25, Coss discloses *wherein the step of comparing said portion with rules stored in a rule table comprises comparing specific fields of the incoming data packet with corresponding rule fields in all of the rules stored in the rule table* (Referring to Figure 3, rules are applied sequentially until a rule is found which is satisfied by the packet. See column 4, lines 27-29.)

Regarding claims 3 and 26, Coss discloses *wherein specific fields of the packet include a source port identification number and Layer 2 to Layer 7 headers* (Referring to Figures 3 and 4, the session key includes the source port and corresponding headings from different layers, as well as, the packet including such headers. See column 5, lines 59-65.)

Regarding claims 4 and 27, Coss discloses *wherein the step of selecting a match between said portion and a particular rule of said rules comprises selecting a highest priority rule of said rules to be the particular rule when more than one rule of said rules match said portion* (Referring to Figure 3, a packet from source host A to destination host D and representing mail will be dropped under rule 20 (highest priority). See column 4, lines 31-34.)

Regarding claims 5 and 28, Coss discloses *wherein the highest priority rule is determined by the addresses of said rules within said rules tables* (Referring to Figure 3, a packet from source host A to destination host D and representing mail will be dropped under rule 20 (highest priority). See column 4, lines 31-34.)

Regarding claims 19 and 42, Coss discloses *wherein the step of executing a particular set of actions specified by said particular rule comprises modifying a header of the incoming data packet, forwarding the incoming data packet to a destination address, or updating a management information register* (Referring to Figures 3, 4, 5A and 5B, when a rule applies to the packet calls for an address change to a proxy or for insertion of one packet into another ("tunnel option"), the process returns to step 505 for processing based on the changed destination. See column 6, lines 66-67 and column 7, lines 1-3.)

Regarding claims 20 and 43, Coss discloses *wherein the step of updating a management information register comprises providing a bitmap used to increment individual counters*

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indicating a forwarding, dropping, or processing of certain types of packets (Referring to Figures 3, 4, 5A and 5B, when a rule applies to the packet calls for an address change to a proxy or for insertion of one packet into another (“tunnel option”), the process returns to step 505 for processing based on the changed destination. See column 6, lines 66-67 and column 7, lines 1-3.)

Regarding claims 21 and 44, Coss discloses *wherein said particular set of actions comprises setting a flow identification for the incoming data packet such that the packet is classified according to a class of service* (Referring to Figure 3, the category based upon service group or protocol/destination port/source port See column 4, lines 46-47.)

Regarding claims 22 and 45, Coss disclose *wherein the step of comparing said portion with rules stored in a rule table comprises comparing said portion with rules stored in a rule table implemented in a static random access memory, with three types of rule fields and action fields all stored in each row of the static random access memory* (Referring to Figure 3, rules are applied (in memory) sequentially until a rule is found which is satisfied by the packet comprises multiple rule fields. See column 4, lines 27-29.)

Regarding claims 23 and 46, Coss discloses *wherein the step of comparing said portion with rules stored in a rule table comprises comparing said portion with rules stored in a rule table implemented in a content addressed memory, where each entry of the content addressed memory includes a selection flag and a validity bit* (Referring to Figure 3, rules are applied, in memory, sequentially until a rule is found which is satisfied by the packet comprises multiple rule fields. See column 4, lines 27-29.)

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald L. Mills whose telephone number is 571-272-3094. The examiner can normally be reached on 8:00 AM to 4:30 PM.

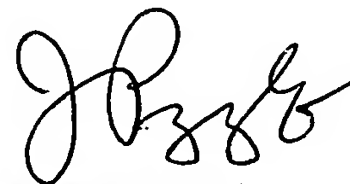
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Donald L Mills

Dem

March 17, 2006



**JOHN PEZZLO
PRIMARY EXAMINER**